

Explanation of the headings . . .

Name of Bull	NAAB Code	Sample Code	Selection Indexes			Milk, Protein and Fat			Type Data			
			NMS	Rel.	CM\$	TPI	lbs.M	lbs.P	%P	lbs.F	%F	UDC

NAME OF BULL — Bull's registered name.

NAAB CODE — A three-part code. The number before the letter indicates the stud from which the bull's semen can be purchased. The letters indicate the breed. The number following the letters is an individual bull identification number.

LIFETIME NET MERIT - NM\$ — Combines PTAs for 9 traits in Holsteins and Brown Swiss. In the other breeds, 8 traits are used because there is no calving ability index available. The values go up slightly for each trait in those four breeds. The index gives the following weighting for Holsteins and Brown Swiss: Fat, 23; Protein, 23; Productive Life, 17; Somatic Cell Score, -9; Daughter Pregnancy Rate, 9; Udder, 6; Calving Ability, 6; Body Size, -4; Feet and Legs, 3.

CHEESE MERIT - CM\$ — Combines PTAs for 10 traits in Holsteins and Brown Swiss. In the other breeds, 9 traits are used because there is no calving ability index available. The values go up 1.04 for each trait in those four breeds. The index gives the following weighting for Holsteins and Brown Swiss: Protein, 28; Fat, 18; Productive Life, 13; Milk, -12; Somatic Cell Score, -7; Daughter Pregnancy Rate, 7; Udder, 5; Calving Ability, 4; Body Size, -3; Feet and Legs, 3.

FLUID MERIT - FM\$ — Combines PTAs for 9 traits in Holsteins and Brown Swiss. In the other breeds, 8 traits are used because there is no calving ability index available. The values go up 1.06 for each trait in those four breeds. The index gives the following weighting for Holsteins and Brown Swiss: Milk, 24; Fat, 23; Productive Life, 17; Somatic Cell Score, -9; Daughter Pregnancy Rate, 8; Udder, 6; Calving Ability, 6; Body Size, -4; Feet and Legs, 3.

REL — Reliability indicates the accuracy of genetic evaluations. Reliabilities are expressed as percents and range from 1 to 99. The closer Reliability is to 99, the more reliable the Predicted Transmitting Abilities (PTAs).

TPI Holsteins — Total Performance Index is a value which is determined by placing an emphasis on production and type. The weighting for this index is 17 for PTA Fat, 28 PTA Protein, 10 PTA PL, -5 PTA SCS, -1 PTA Dairy Form, 13 PTA Type, 10 Udder Composite, 5 Foot and Leg Composite, -2 Daughter Calving Ease, 8 Daughter Pregnancy Rate, and -1 Daughter Stillbirth.

JPI Jerseys — The Jersey Performance Index is a value that is determined by placing an emphasis of 40 for PTA Protein; 20 for PTA Fat; 15 for FTI (Functional Trait Index); and 12 for PTA PL (Productive Life), 7 for PTA DPR (Daughter Pregnancy Rate), 3 for FUI (Functional Udder Index), and minus 3 for PTA SCS (Somatic Cell

Score). **PPR Brown Swiss** — The Progressive Performance Ranking (PPR) is calculated with an emphasis of 45 for PTA Protein, 20 for PTA Fat, 8 PTA SCS, 8 PL, 10 Udder Composite, 3, DPR, 3 PTA Final Score, and 3 for Foot and Leg Composite. **PTI Ayrshires and Milking Shorthorns** — Determined by placing an emphasis of 4 for PTA Pounds of Protein, 2 for PTA Pounds of Fat, and 1 for PTA Type. **PTI Guernseys** — Computed with a weighting of 5 for PTA Protein, 1 for PTA Fat, and 1 for FHL (Functional Herd Life).

PTA LBS. P, %P, LBS. M, LBS. F, AND %F — PTAs for pounds protein, percent protein, pounds milk, pounds fat, and percent fat indicate how much more (or less) "performance" to expect from an average daughter of bull compared to a average daughter of another bull with a proof of zero. The genetic base, called PTA 00, was selected so half the cow population will have positive PTAs. It was established by setting to zero the weighted average PTAs of all cows born in 2000.

PTA SCS — Predicted Transmitting Ability-Somatic Cell Score is expressed in somatic cell score units. For somatic cell score, lower units are better. Research has shown that the lowest incidence of clinical mastitis and the fewest number of mastitis episodes occurred among daughters of bulls with the lowest PTA-SCS, and the mastitis measures increased with increasing PTA-SCS. A one-point increase in the sire's PTA-SCS was associated with a 75 percent increase in daughter's mastitis incidence in both first and second lactation.

PTA PL — Predicted Transmitting Ability-Productive Life is expressed in months a cow is in production. A higher PTA would result in a longer herd life.

UDC Holsteins — Udder Composite Score is a ranking of bulls based on ability for udder improvement. Weights for the various udder traits are: Udder Depth, 35 percent; Front Teat Placement, 5 percent; Rear Udder Height, 16 percent; Fore Udder Attachment, 16 percent; Rear Udder Width, 12 percent; Udder Cleft, 9 percent, and Rear Teat Placement, 7 percent.

F&L Holsteins — Feet and Leg Composite Score is a ranking of bulls based on ability for feet and leg improvement. Weights for the four traits are: Foot Angle, 24 percent; Rear Legs, Rear View, 18.5 percent; Rear Legs, Side View, 7.5 percent; and 50 percent Feet and Leg Breakdown.

CALVING EASE — Service sire calving ease is the tendency of calves from a particular sire to be born more easily (or more difficult) than an average calf. **Sire Stillbirth** is the tendency of newborn calves sired by a particular bull when mated to heifers to be born dead or die within the first 48 hours after birth. Bulls with lower numbers sire more live calves.

Guernsey Top 10 Net Merit Bulls

Name of Bull	NAAB Code	Selection Indexes			Production-related PTAs			Type Data							
		NMS	Rel.	CM\$	PTI	lbs.M	lbs.P	%P	lbs.F	%F	Rel.	SCS	PL	PTAT	Rel.
SNIDERS RONALDS ALSTAR	7GU398	397	74	379	186	1115	26	-0.06	52	0.02	82	3.09	3.5	1.4	78
SNIDERS OPTION AARON	7GU395	328	81	319	216	1034	28	-0.03	66	0.11	90	2.84	0.6	1.8	83
MYOWN POKER BINGO-ET	200GU111	317	67	328	136	718	27	0.02	43	0.07	74	2.77	2.0	0.5	66
GOLDEN J RONALD GRUMPY	7GU405	278	68	283	151	732	25	0.01	42	0.06	78	2.97	1.9	1.3	70
JENS GOLD FORT HUDSON	14GU297	263	72	253	185	1463	40	-0.04	41	-0.13	81	3.05	0.9	1.0	75
RIPLEY FARMS HOTSHOT BRYANT-ET	14GU291	252	78	267	71	233	14	0.04	7	-0.02	85	2.78	3.8	0.5	79
LANG HAVEN DECISIONS NATURAL	7GU412	224	63	240	152	664	28	0.04	38	0.05	74	3.04	1.1	1.7	66
MYOWN POKER BAMBOOZZLE-ET	1GU424	217	69	242	118	534	28	0.06	47	0.14	77	2.82	-0.2	0.2	70
MILLBORNE BOLERO	200GU401	205	70	179	112	739	10	-0.08	28	-0.03	81	2.81	2.5	1.8	64
FLAMBEAU MANOR TILLER LES-ET	1GU428	171	78	169	127	354	10	-0.01	40	0.14	87	3.06	0.8	2.0	83

Ayrshire Top 10 Net Merit Bulls

Name of Bull	NAAB Code	Selection Indexes			Production-related PTAs			Type Data							
		NMS	Rel.	CM\$	PTI	lbs.M	lbs.P	%P	lbs.F	%F	Rel.	SCS	PL	PTAT	Rel.
ASMO SAFIR-ET	263AY9311	527	66	546	335	1770	63	0.04	68	0.00	76	2.73	3.1	0.4	56
PUROLAN ORKKO	263AY1531	462	78	511	266	351	34	0.12	21	0.04	84	2.78	6.3	0.3	61
KILDARE JUPITER-ET	200AY597	448	67	459	299	1341	46	0.02	52	0.00	79	2.59	3.2	0.7	59
SANROSA ROYAL PHILLIP	190AY8	420	58	453	233	1389	58	0.08	72	0.10	62	3.06	1.8	0.5	50
VIKIN RECORD	263AY2724	402	69	406	247	1871	60	0.01	65	-0.03	76	2.73	0.9	0.1	56
RANTA-AHON PASSELI	263AY2516	394	72	423	246	2303	84	0.06	84	-0.02	76	2.97	-1.1	0.2	58
HYOTYLAN PIUHA	263AY1713	393	72	448	212	1146	60	0.13	60	0.08	78	2.86	0.1	0.6	58
KILDARE TORNADE S-ET	200AY516	374	76	390	226	167	13	0.04	36	0.16	82	2.62	4.7	0.0	63
KILFENNAN CHALLENGE	190AY4	346	60	385	200	962	47	0.09	68	0.16	67	3.07	0.5	0.2	55
HIDDEN-VALLEY GARTH	76AY732	345	68	356	237	98	8	0.03	5	0.01	77	2.53	5.9	0.7	70

Milking Shorthorn Top 5 Net Merit Bulls

Name of Bull	NAAB Code	Selection Indexes			Production-related PTAs			Type Data							
		NMS	Rel.	CM\$	PTI	lbs.M	lbs.P	%P	lbs.F	%F	Rel.	SCS	PL	PTAT	Rel.
VINRA FROST TED	14MS110	362	77	357		897	25	-0.01	34	0.01	89	2.91	4.6	0.1	76
GOLD MINE FROST KOURT	7MS343	320	81	337		168	13	0.05	20	0.08	93	2.88	5.3	0.3	78
HARDCORE OTHELLO MOONSHINE-ET	14MS111	209	69	204		586	16	-0.01	5	-0.09	84	2.89	3.1	0.4	70
BAR-D-KUSZMAR CLAY	7MS341	176	85	170		379	9	-0.02	41	0.16	94	3.12	2.7	0.3	75
BLISSFUL DIAMOND SAM	7MS344	100	61	92		285	5	-0.02	10	0.00	80	2.84	1.0	0.7	53

*FC = Carrier of the genetic recessive that causes milk to have a fish odor